

- Hirschberg CB, 67:49-69
 Holden HM, 70:149-80
 Holmes KC, 68:687-728
 Horwich AL, 67:581-608
 Huang E, 66:549-79
 Huang L-S, 69:1005-75
 Huang X, 70:149-80
 Hubbard SR, 69:373-98
 Huffman DL, 70:677-701
- Ibba M, 69:617-50
 Iozzo RV, 67:609-52
- Jacobsen JR, 68:219-54
 Jahn R, 68:863-911
 Jencks WP, 66:1-18
 Jones EY, 66:823-62
 Jordan A, 67:71-98
- Kaibuchi K, 68:459-86
 Kane CM, 66:117-72
 Katso R, 70:535-601
 Kaufmann SH, 68:383-424
 Keenan RJ, 70:755-75
 Kelly TJ, 69:829-80
 Kent SBH, 69:923-60
 Kerr IM, 67:227-64
 Khan S, 66:785-805
 Khosla C, 68:219-54
 Kim J, 69:303-42
 Kim PS, 70:777-810
 Kingston RE, 67:545-79
 Kirchhausen T, 69:699-727
 Kisker C, 66:233-67
 Kliewer SA, 70:341-67
 Klionsky DJ, 69:303-42
 Koller A, 69:399-418
 Kornberg A, 68:89-126
 Kornberg RD, 69:729-49
 Krebs EG, 67:xiii-xxxii
 Kreil G, 66:337-45
 Krieger M, 68:523-58
 Kunkel TA, 69:497-529
 Kuroda S, 68:459-86
- Lambert MH, 70:341-67
 Lansbury PT Jr, 66:385-407
- Leevers SJ, 70:535-601
 Lefkowitz RJ, 67:653-92
 Lehman IR, 66:347-84
 Lemon BD, 70:475-501
 Levitt M, 66:549-79
 Lincecum J, 68:729-77
 Lipshitz HD, 67:335-94
 Lloyd RS, 68:255-86
 Lombardi A, 68:779-819
 Ludwig ML, 66:269-313
 Lutkenhaus J, 66:93-116
 Ly HD, 68:487-522
- Maehama T, 70:247-79
 Mann M, 70:437-73
 Martins LM, 68:383-424
 Massagué J, 67:753-91
 Mattaj IW, 67:265-306
 Matthews RG, 66:269-313
 McCullough AK, 68:255-86
 McIntosh JM, 68:59-88
 McIntyre TM, 69:419-45
 Meyers RE, 67:481-507
 Montminy M, 66:807-22
 Moore PB, 68:287-300
 Myers LC, 69:729-49
- Näär AM, 70:475-501
 Narlikar GJ, 66:19-59
 Nastri F, 68:779-819
 Neupert W, 66:863-917
 Nielsen S, 68:425-58
 Nogales E, 69:277-302
 Noller HF, 66:679-716
- O'Connor L, 69:217-45
 O'Halloran TV, 70:677-701
 Olivera BM, 68:59-88
- Pabo CO, 70:313-40
 Pace NR, 67:153-80
 Page AM, 68:583-609
 Pandey A, 70:437-73
 Park PW, 68:729-77
 Parker PJ, 70:535-601
 Parker R, 69:571-95
 Parodi AJ, 69:69-93
- Patel SS, 69:651-97
 Paulus H, 69:447-96
 Pavone V, 68:779-819
 Peisach E, 70:313-40
 Pelaz S, 68:321-54
 Perham RN, 69:961-1004
 Picha KM, 69:651-97
 Pickart CM, 70:503-33
 Pitcher JA, 67:653-92
 Pollard TD, 70:649-76
 Popot J-L, 69:881-922
 Prescott SM, 69:419-45
 Prusiner SB, 67:793-819
- Rao N, 68:89-126
 Raught B, 68:913-64
 Raushel FM, 70:149-80
 Rees DC, 66:233-67
 Reizes O, 68:729-77
 Reshef L, 66:581-611
 Rhee SG, 70:281-312
 Richardson CC, 70:39-80
 Rittenhouse SE,
 68:965-1016
 Robbins PW, 67:49-69
 Roberts RJ, 67:181-98
 Robinson VL, 69:183-215
 Rodnina MV, 70:415-35
 Ross EM, 69:795-827
 Roth SY, 70:81-120
 Rye HS, 67:581-608
- Sadler JE, 67:395-424
 Sagerström CG, 66:751-83
 Salinas F, 70:181-208
 Sancar A, 69:31-67
 Santos AD, 68:59-88
 Sarkar N, 66:173-97
 Scanlan TS, 68:559-81
 Schachman HK, 69:1-29
 Schindelin H, 66:233-67
 Schmid SL, 66:511-48
 Schramm VL, 67:693-720
 Schreiber RD, 67:227-64
 Shadel GS, 66:409-35
 Shaywitz AJ, 68:821-61
 Sheetz MP, 66:785-805

- Sigler PB, 67:581-608
Silverman RH, 67:227-64
Singer WD, 66:475-509
Sive HL, 66:751-83
Skehel JJ, 69:531-69
Smith WL, 69:145-82
Snyder WB, 69:399-418
Söll D, 69:617-50
Sonenberg N, 68:913-64
Sprang SR, 66:639-78
Stafforini DM, 69:419-45
Stark GR, 67:227-64
Sternweis PC,
66:475-509
Stillman B, 67:721-51
Stock AM, 69:183-215
Strasser A, 69:217-45
Stroud RM, 70:755-75
Subbiah S, 66:549-79
Subramani S, 69:399-418
Südhof TC, 68:863-911
Summa CM, 68:779-819
Sun BI, 66:751-83
Szostak JW, 68:611-48
Tabor C, 68:1-32
Tabor H, 68:1-32
Taylor GS, 70:247-79
Thorne JW, 70:703-54
Till JH, 69:373-98
Timms J, 70:535-601
Tjian R, 70:475-501
Tsai J, 66:549-79
Tsichlis PN, 68:965-1016
Tsien RY, 67:509-44
Tucker M, 69:571-95
Tye BK, 68:649-86
Uptain SM, 66:117-72
Valentine AM, 70:181-208
Vanhaesebroeck B,
70:535-601
Verma S, 67:99-134
Voges D, 68:1017-70
Waga S, 67:721-51
Walter P, 70:755-75
Waterfield MD, 70:535-601
Weatherman RV, 68:559-81
Wickner W, 69:247-75
Wiley DC, 69:531-69
Wilkie TM, 69:795-827
Williams BRG, 67:227-64
Willson TM, 70:341-67
Wilson DS, 68:611-48
Wintermeyer W, 70:415-35
Withers SG, 68:487-522
Wold MS, 66:61-92
Workman JL, 67:545-79
Woscholski R, 70:535-601
Xu Z, 67:581-608
Yanofsky C, 70:1-37
Yanofsky MF, 68:321-54
Young JAT, 67:1-25
Young MW, 67:135-52
Zako M, 68:729-77
Zimmerman GA,
69:419-45
Zwickl P, 68:1017-70

CHAPTER TITLES, VOLUMES 66-70

Prefatory

From Chemistry to Biochemistry to Catalysis to Movement	WP Jencks	66:1-18
An Accidental Biochemist	EG Krebs	67:xiii-xxxii
Prefatory: It All Started on a Streetcar in Boston	CW Tabor, H Tabor	68:1-32
Still Looking for the Ivory Tower	HK Schachman	69:1-29
Advancing Our Knowledge in Biochemistry, Genetics, and Microbiology Through Studies on Tryptophan Metabolism	C Yanofsky	70:1-37

Bioenergetics

Electron Transport and Oxidative Phosphorylation

The ATP Synthase—A Splendid Molecular Machine	PD Boyer	66:717-49
Structure and Function of Cytochrome <i>bc</i> Complexes	EA Berry, M Guergova-Kuras, L-S Huang, AR Crofts	69:1005-75

Permeases, Transporters, and Pumps

Transporters of Nucleotide Sugars, ATP, and Nucleotide Sulfate in the Endoplasmic Reticulum and Golgi Apparatus	CB Hirschberg, PW Robbins, C Abeijon	67:49-69
---	--	----------

Cellular Biochemistry

Cell Cycle and Cell Division

The Anaphase-Promoting Complex: New Subunits and Regulators	AM Page, P Hieter	68:583-609
Spindle Assembly in Animal Cells	DA Compton	69:95-114

Cytoskeleton

Regulation of the Cytoskeleton and Cell Adhesion by the Rho Family GTPases in Mammalian Cells	K Kaibuchi, S Kuroda, M Amano	68:459-86
Structural Insights into Microtubule Function	E Nogales	69:277-302

Regulation of Actin Filament Network Formation Through Arp2/3 Complex: Activation by a Diverse Array of Proteins	HN Higgs, TD Pollard	70:649-76
<i>Contractile and Motor Proteins</i>		
Force Effects on Biochemical Kinetics	S Khan, MP Sheetz	66:785-805
Structural Mechanism of Muscle Contraction	MA Geeves, KC Holmes	68:687-728
<i>Vesicular Trafficking and Secretion</i>		
Clathrin-Coated Vesicle Formation and Protein Sorting: An Integrated Process	SL Schmid	66:511-48
Membrane Fusion and Exocytosis	R Jahn, TC Südhof	68:863-911
Clathrin	T Kirchhausen	69:699-727
<i>Intracellular Targeting and Localization</i>		
Nucleocytoplasmic Transport: The Soluble Phase	IW Mattaj, L Englmeier	67:265-306
RNA Localization in Development	A Bashirullah, RL Cooperstock, HD Lipshitz	67:335-94
Membrane Fusion and Exocytosis	R Jahn, TC Südhof	68:863-911
Autophagy, Cytoplasm-to-Vacuole Targeting Pathway, and Pexophagy in Yeast and Mammalian Cells	J Kim, DJ Klionsky	69:303-42
<i>Organelles</i>		
Mitochondrial DNA Maintenance in Vertebrates	GS Shadel, DA Clayton	66:409-35
Protein Import into Mitochondria	W Neupert	66:863-917
Inorganic Polyphosphate: A Molecule of Many Functions	A Kornberg, N Rao, D Ault-Riché	68:89-125
Import of Peroxisomal Matrix and Membrane Proteins	S Subramani, A Koller, WB Snyder	69:399-418
<i>Extracellular Matrix and Adhesion Molecule</i>		
The Molecular Structure of Cell Adhesion Molecules	C Chothia, EY Jones	66:823-62
Matrix Proteoglycans: From Molecular Design to Cellular Function	RV Iozzo	67:609-52
Regulation of the Cytoskeleton and Cell Adhesion by the Rho Family GTPases in Mammalian Cells	K Kaibuchi, S Kuroda, M Amano	68:459-86

Functions of Cell Surface Heparan Sulfate Proteoglycans	M Bernfield, M Götte, PW Park, O Reizes, ML Fitzgerald, J Lincecum, M Zako	68:729-77
Apoptosis		
The Molecular Control of Circadian Behavioral Rhythms and Their Entrainment in <i>Drosophila</i>	MW Young	67:135-52
Mammalian Caspases: Structure, Activation, Substrates and Functions During Apoptosis	WC Earnshaw, LM Martins, SH Kaufmann	68:383-424
Apoptosis Signaling	A Strasser, L O'Connor, VM Dixit	69:217-45
DNA		
Structure		
Base Flipping	RJ Roberts, X Cheng	67:181-98
Ciliate Telomerase Biochemistry	K Collins	68:187-218
In Vitro Selection of Functional Nucleic Acids	DS Wilson, JW Szostak	68:611-47
DNA Topoisomerases: Structure, Function, and Mechanism	JJ Champoux	70:369-413
Methodology		
Subtractive Cloning: Past, Present, and Future	CG Sagerström, BI Sun, HL Sive	66:751-83
Modified Oligonucleotides: Synthesis and Strategy for Users	S Verma, F Eckstein	67:99-134
In Vitro Selection of Functional Nucleic Acids	DS Wilson, JW Szostak	68:611-47
Replication		
Replication Protein A: A Heterotrimeric, Single-Stranded DNA-Binding Protein Required for Eukaryotic DNA Metabolism	MS Wold	66:61-92
Herpes Simplex Virus DNA Replication	PE Boehmer, IR Lehman	66:347-84
The DNA Replication Fork in Eukaryotic Cells	S Waga, B Stillman	67:721-51
Ciliate Telomerase Biochemistry	K Collins	68:187-218

MCM Proteins in DNA Replication	BK Tye	68:649-86
Structure and Function of Hexameric Helicases	SS Patel, KM Picha	69:651-97
Regulation of Chromosome Replication	TJ Kelly, GW Brown	69:829-80
DNA Primases	DN Frick, CC Richardson	70:39-80
Replisome-Mediated DNA Replication	SJ Benkovic, AM Valentine, F Salinas	70:181-208
<i>Repair</i>		
Initiation of Base Excision Repair:		
Glycosylase Mechanisms and Structures	AK McCullough, ML Dodson, RS Lloyd	68:255-85
<i>Chromatin and Chromosomes</i>		
Alteration of Nucleosome Structure as a Mechanism of Transcriptional Regulation	JL Workman, RE Kingston	67:545-79
Ciliate Telomerase Biochemistry	K Collins	68:187-218
Chromosome Cohesion, Condensation, and Separation	T Hirano	69:115-44
Histone Acetyltransferases	SY Roth, JM Denu, CD Allis	70:81-120
<i>Recombination and Transposition</i>		
Target Site Selection in Transposition	NL Craig	66:437-74
<i>Enzymes and Binding Proteins</i>		
Ciliate Telomerase Biochemistry	K Collins	68:187-218
Initiation of Base Excision Repair:		
Glycosylase Mechanisms and Structures	AK McCullough, ML Dodson, RS Lloyd	68:255-85
DNA Primases	DN Frick, CC Richardson	70:39-80
Design and Selection of Novel Cys ₂ His ₂ Zinc Finger Proteins	CO Pabo, E Peisach, RA Grant	70:313-40
DNA Topoisomerases: Structure, Function, and Mechanism	JJ Champoux	70:369-413
<i>Mutagenesis</i>		
DNA Replication Fidelity	TA Kunkel, K Bebenek	69:497-529
<i>Ribozymes and Molecular Evolution</i>		
Ribozyme Structures and Mechanisms	EA Doherty, JA Doudna	69:597-615

Enzymology

Catalytic Mechanisms

Mechanistic Aspects of Enzymatic Catalysis:

Lessons from Comparison of RNA and Protein Enzymes

GJ Narlikar, 66:19-59
D Herschlag

Structure-Based Perspectives on

B₁₂-Dependent Enzymes

ML Ludwig, 66:269-313
RG Matthews

Mutagenesis of Glycosidases

HD Ly, SG Withers 68:487-522

Radical Mechanisms of Enzymatic Catalysis

PA Frey 70:121-48

Cofactors and Prosthetic Groups

Structure-Based Perspectives on

B₁₂-Dependent Enzymes

ML Ludwig, 66:269-313
RG Matthews
RY Tsien

The Green Fluorescent Protein

The Tetrahydropterin-Dependent Amino Acid Hydroxylases

PF Fitzpatrick 68:355-81

Function, Structure, and Mechanism of

Intracellular Copper Trafficking Proteins

DL Huffman, 70:677-701
TV O'Halloran

Metalloenzymes

Molybdenum-Cofactor-Containing Enzymes:

Structure and Mechanism

C Kisker, 66:233-67
H Schindelin,
DC Rees

Catalysis by Metal-Activated Hydroxide in

Zinc and Manganese Metalloenzymes

DW Christianson, 68:33-57
JD Cox

Function, Structure, and Mechanism of

Intracellular Copper Trafficking Proteins

DL Huffman, 70:677-701
TV O'Halloran

Regulation

Regulation of Phosphoenolpyruvate

Carboxykinase (GTP) Gene Expression

RW Hanson, L Reshef 66:581-611

Mammalian Caspases: Structure, Activation,

Substrates and Functions During Apoptosis

WC Earnshaw, 68:383-424
LM Martins,
SH Kaufmann

AKT/PKB and Other D3

Phosphoinositide-Regulated Kinases:

Kinase Activation by

Phosphoinositide-Dependent

Phosphorylation

TO Chan, 68:965-1014
SE Rittenhouse,
PN Tsichlis

Channeling of Substrates and Intermediates in Enzyme-Catalyzed Reactions	X Huang, HM Holden, FM Rauschel	70:149-80
---	------------------------------------	-----------

Inhibitors

Enzymatic Transition States and Transition State Analog Design	VL Schramm	67:693-720
---	------------	------------

Membranes***Structure and Methodology***

The Caveolae Membrane System	RGW Anderson	67:199-225
------------------------------	--------------	------------

Lipids

Molecular Basis for Membrane Phospholipid Diversity: Why Are There So Many Lipids?	W Dowhan	66:199-232
--	----------	------------

Sphingolipid Functions in <i>Saccharomyces</i> <i>Cerevisiae</i> : Comparison to Mammals	RC Dickson	67:27-48
---	------------	----------

Phosphoinositide Kinases	DA Fruman, RE Meyers, LC Cantley	67:481-507
--------------------------	--	------------

Sterols and Isoprenoids: Signaling Molecules Derived from the Cholesterol Biosynthetic Pathway	PA Edwards, J Ericsson	68:157-85
--	---------------------------	-----------

AKT/PKB and Other D3 Phosphoinositide-Regulated Kinases: Kinase Activation by Phosphoinositide-Dependent Phosphorylation	TO Chan, SE Rittenhouse, PN Tsichlis	68:965-1014
--	--	-------------

Regulation of Phosphoinositide-Specific Phospholipase C	SG Rhee	70:281-312
--	---------	------------

Synthesis and Function of 3-Phosphorylated Inositol Lipids	B Vanhaesebroeck, SJ Leever, K Ahmadi, J Timms, R Katso, PC Driscoll, R Woscholski, PJ Parker, MD Waterfield	70:535-601
---	---	------------

Glycobiology

Mutagenesis of Glycosidases	HD Ly, SG Withers	68:487-522
-----------------------------	-------------------	------------

Functions of Cell Surface Heparan Sulfate Proteoglycans	M Bernfield, M Götte, PW Park, O Reizes, ML Fitzgerald, J Lincecum, M Zako	68:729-77
Cell Walls		
Bacterial Cell Division and the Z Ring	J Lutkenhaus, SG Addinall	66:93-116
Role of Small G Proteins in Yeast Cell Polarization and Wall Biosynthesis	E Cabib, J Drgonová, T Drgon	67:307-33
Membrane Proteins		
Membrane Fusion and Exocytosis	R Jahn, TC Südhof	68:863-911
Helical Membrane Protein Folding, Stability and Evolution	J-L Popot, DM Engelman	69:881-922
Ion Channels		
Cellular and Molecular Biology of the Aquaporin Water Channels	M Borgnia, S Nielsen, A Engel, P Agre	68:425-58
Organismal Biochemistry		
Development and Differentiation		
Control of Carpel and Fruit Development in Arabidopsis	C Ferrándiz, S Pelaz, MF Yanofsky	68:321-54
Biochemical Basis of Disease		
Biochemistry and Genetics of von Willebrand Factor	JE Sadler	67:395-424
The Molecular Basis of Hypertension	DL Garbers, SK Dubois	68:127-55
Host-Pathogen and Host-Symbiont Interactions		
HIV-1: Fifteen Proteins and an RNA	AD Frankel, JAT Young	67:1-25
Neurochemistry		
The Molecular Basis of Hypertension	DL Garbers, SK Dubois	68:127-55

Proteins**Structure**

Molybdenum-Cofactor-Containing Enzymes:

Structure and Mechanism

C Kisker,
H Schindelin,
DC Rees
66:233-67

D-Amino Acids in Animal Peptides

G Kreil
66:337-45

Models of Amyloid Seeding in Alzheimer's

Disease and Scrapie: Mechanistic Truths
and Physiological Consequences of the
Time-Dependent Solubility of Amyloid
ProteinsJD Harper,
PT Lansbury Jr.
RY Tsien
66:385-407
67:509-44

The Green Fluorescent Protein

Initiation of Base Excision Repair:

Glycosylase Mechanisms and Structures

AK McCullough,
ML Dodson,
RS Lloyd
68:255-85

Structural Mechanism of Muscle Contraction

MA Geeves,
KC Holmes
68:687-728

The 26S Proteasome: A Molecular Machine

Designed for Controlled Proteolysis

D Voges, P Zwickl,
W Baumeister
68:1015-68

Receptor Binding and Membrane Fusion in

Virus Entry: The Influenza Hemagglutinin

Swinging Arms and Swinging Domains in

Multifunctional Enzymes: Catalytic

Machines for Multistep Reactions

JJ Skehel, DC Wiley
69:531-69RN Perham
69:961-1004**Methodology**

The Green Fluorescent Protein

RY Tsien
67:509-44

Synthesis of Native Proteins by Chemical

Ligation

PE Dawson, SBH Kent
69:923-60

Analysis of Proteins and Proteomes by Mass

Spectrometry

M Mann,
RC Hendrickson,
A Pandey
70:437-73**Folding and Design**

Models of Amyloid Seeding in Alzheimer's

Disease and Scrapie: Mechanistic Truths

and Physiological Consequences of the

Time-Dependent Solubility of Amyloid

Proteins

JD Harper,
PT Lansbury Jr.
66:385-407

Protein Folding: The Endgame

M Levitt, M Gerstein,
E Huang, S Subbiah,
J Tsai
66:549-79

Structure and Function in GroEL-Mediated Protein Folding	PB Sigler, Z Xu, HS Rye, SG Burston, WA Fenton, AL Horwich	67:581-608
Pathologic Conformations of Prion Proteins	FE Cohen, SB Prusiner	67:793-819
De Novo Design and Structural Characterization of Proteins and Metalloproteins	WF DeGrado, CM Summa, V Pavone, F Nastri, A Lombardi	68:779-819
The 26S Proteasome: A Molecular Machine Designed for Controlled Proteolysis	D Voges, P Zwickl, W Baumeister	68:1015-68
Protein Glucosylation and Its Role in Protein Folding	AJ Parodi	69:69-93
Folding of Newly Translated Proteins In Vivo: The Role of Molecular Chaperones	J Frydman	70:603-47
Mechanisms of Viral Membrane Fusion and Its Inhibition	DM Eckert, PS Kim	70:777-810
<i>Post-Translational Processing and Modifications</i>		
Dynamic O-Linked Glycosylation of Nuclear and Cytoskeletal Proteins	GW Hart	66:315-35
The Anaphase-Promoting Complex: New Subunits and Regulators	AM Page, P Hieter	68:583-609
Protein Splicing and Related Forms of Protein Autoprocessing	H Paulus	69:447-96
<i>Proteolysis and Turnover</i>		
The Ubiquitin System	A Hershko, A Ciechanover	67:425-79
The Anaphase-Promoting Complex: New Subunits and Regulators	AM Page, P Hieter	68:583-609
The 26S Proteasome: A Molecular Machine Designed for Controlled Proteolysis	D Voges, P Zwickl, W Baumeister	68:1015-68
Mechanisms Underlying Ubiquitination	CM Pickart	70:503-33
<i>Lipoproteins and Glycoproteins</i>		
Regulation of Eukaryotic Phosphatidylinositol-Specific Phospholipase C and Phospholipase D	WD Singer, HA Brown, PC Sternweis	66:475-509
Mutagenesis of Glycosidases	HD Ly, SG Withers	68:487-522

Charting the Fate of the "Good Cholesterol": Identification and Characterization of the High-Density Lipoprotein Receptor SR-BI	M Krieger	68:523-58
Functions of Cell Surface Heparan Sulfate Proteoglycans	M Bernfield, M Götte, PW Park, O Reizes, ML Fitzgerald, J Lincecum, M Zako	68:729-77

Families and Evolution

Divergent Evolution of Enzymatic Function: Mechanistically Diverse Superfamilies and Functionally Distinct Suprafamilies	JA Gerlt, PC Babbitt	70:209-46
--	----------------------	-----------

RNA

Structure

Structural Motifs in RNA	PB Moore	68:287-300
In Vitro Selection of Functional Nucleic Acids	DS Wilson, JW Szostak	68:611-47
Yeast Homotypic Vacuole Fusion: A Window on Organelle Trafficking Mechanisms	W Wickner, A Haas	69:247-75

Methodology

In Vitro Selection of Functional Nucleic Acids	DS Wilson, JW Szostak	68:611-47
---	--------------------------	-----------

Transcription and Gene Regulation

Basic Mechanisms of Transcript Elongation and its Regulation	SM Uptain, CM Kane, MJ Chamberlin	66:117-72
Transcriptional Regulation by Cyclic AMP	M Montminy	66:807-22
Transcription Elongation and Human Disease	JW Conaway, RC Conaway	68:301-19
Nuclear-Receptor Ligands and Ligand-Binding Domains	RV Weatherman, RJ Fletterick, TS Scanlan	68:559-81
CREB: A Stimulus-Induced Transcription Factor Activated by a Diverse Array of Extracellular Signals	AJ Shaywitz, ME Greenberg	68:821-61
Mediator of Transcriptional Regulation	LC Myers, RD Kornberg	69:729-49

Peroxisome Proliferator-Activated Receptor γ and Metabolic Disease	TM Willson, MH Lambert, SA Kliewer	70:341-67
Transcriptional Coactivator Complexes	AM Näär, BD Lemon, R Tjian	70:475-501
<i>Splicing, Posttranscriptional Processing and Modification</i>		
Polyadenylation of mRNA in Prokaryotes	N Sarkar	66:173-97
Ribonuclease P: Unity and Diversity in a tRNA Processing Ribozyme	DN Frank, NR Pace	67:153-80
Mechanisms and Control of mRNA Decapping in <i>Saccharomyces cerevisiae</i>	M Tucker, R Parker	69:571-95
Critical Analysis of Antibody Catalysis	D Hilvert	69:751-93
<i>Translation</i>		
Ribosomes and Translation	R Green, HF Noller	66:679-716
eIF4 Initiation Factors: Effectors of mRNA Recruitment to Ribosomes and Regulators of Translation	A-C Gingras, B Raught, N Sonenberg	68:913-63
Coupling of Open Reading Frames by Translational Bypassing	AJ Herr, JF Atkins, RF Gesteland	69:343-72
Aminoacyl-tRNA Synthesis	M Ibba, D Söll	69:617-50
Fidelity of Aminoacyl-tRNA Selection on the Ribosome: Kinetic and Structural Mechanisms	MV Rodnina, W Wintermeyer	70:415-35
The Signal Recognition Particle	RJ Keenan, DM Freymann, RM Stroud, P Walter	70:755-75
<i>Ribozymes and Molecular Evolution</i>		
In Vitro Selection of Functional Nucleic Acids	DS Wilson, JW Szostak	68:611-47
<i>Enzymes and Binding Proteins</i>		
Basic Mechanisms of Transcript Elongation and its Regulation	SM Uptain, CM Kane, MJ Chamberlin	66:117-72
The Signal Recognition Particle	RJ Keenan, DM Freymann, RM Stroud, P Walter	70:755-75

Signal Transduction

Hormones, Neurotransmitters, and Growth Factors

How Cells Respond to Interferons	GR Stark, IM Kerr, BRG Williams, RH Silverman, RD Schreiber	67:227-64
TGF- β Signal Transduction	J Massagué	67:753-91
The Molecular Basis of Hypertension	DL Garbers, SK Dubois	68:127-55

Nuclear-Receptor Ligands and Ligand-Binding Domains	RV Weatherman, RJ Fletterick, TS Scanlan	68:559-81
--	--	-----------

Platelet-Activating Factor and Related Lipid Mediators	SM Prescott, GA Zimmerman, DM Stafforini, TM McIntyre	69:419-45
---	--	-----------

Receptors

G Protein-Coupled Receptor Kinases	JA Pitcher, NJ Freedman, RJ Lefkowitz	67:653-92
------------------------------------	---	-----------

Cryptochrome: The Second Photoactive Pigment in the Eye and Its Role in Circadian Photoreception	A Sancar	69:31-67
--	----------	----------

Heterotrimeric G-Proteins

G-Protein Mechanisms: Insights from Structural Analysis	SR Sprang	66:639-78
GTPase-Activating Proteins for Heterotrimeric G Proteins: Regulators of G Protein Signaling (RGS) and RGS-Like Proteins	EM Ross, TM Wilkie	69:795-827
Regulation of G Protein-Initiated Signal Transduction in Yeast: Paradigms and Principles	HG Dohlman, JW Thorner	70:703-54

Second Messengers

Regulation of Eukaryotic Phosphatidylinositol-Specific Phospholipase C and Phospholipase D	WD Singer, HA Brown, PC Sternweis	66:475-509
Transcriptional Regulation by Cyclic AMP	M Montminy	66:807-22

CREB: A Stimulus-Induced Transcription Factor Activated by a Diverse Array of Extracellular Signals	AJ Shaywitz, ME Greenberg	68:821-61
AKT/PKB and Other D3 Phosphoinositide-Regulated Kinases: Kinase Activation by Phosphoinositide-Dependent Phosphorylation	TO Chan, SE Rittenhouse, PN Tsichlis	68:965-1014
Cyclooxygenases: Structural, Cellular, and Molecular Biology	WL Smith, DL DeWitt, RM Garavito	69:145-82
<i>Phosphorylation Cascades</i>		
The AMP-Activated/SNF1 Protein Kinase Subfamily: Metabolic Sensors of the Eukaryotic Cell?	DG Hardie, D Carling, M Carlson	67:821-55
CREB: A Stimulus-Induced Transcription Factor Activated by a Diverse Array of Extracellular Signals	AJ Shaywitz, ME Greenberg	68:821-61
AKT/PKB and Other D3 Phosphoinositide-Regulated Kinases: Kinase Activation by Phosphoinositide-Dependent Phosphorylation	TO Chan, SE Rittenhouse, PN Tsichlis	68:965-1014
Two-Component Signal Transduction	AM Stock, VL Robinson, PN Goudreau	69:183-215
Protein Tyrosine Kinase Structure and Function	SR Hubbard, JH Till	69:373-98
PTEN and Myotubularin: Novel Phosphoinositide Phosphatases	T Maehama, GS Taylor, JE Dixon	70:247-79
<i>Chemotaxis</i>		
Regulation of the Cytoskeleton and Cell Adhesion by the Rho Family GTPases in Mammalian Cells	K Kaibuchi, S Kuroda, M Amano	68:459-86

Small Molecules

Amino Acids, Nucleosides, and Sugars

Ribonucleotide Reductases	A Jordan, P Reichard	67:71-98
The Tetrahydropterin-Dependent Amino Acid Hydroxylases	PF Fitzpatrick	68:355-81

Fatty Acids, Lipids, and Lipases

Regulation of Eukaryotic Phosphatidylinositol-Specific Phospholipase C and Phospholipase D	WD Singer, HA Brown, PC Sternweis	66:475-509
Acyl-Coenzyme A: Cholesterol Acyltransferase	TY Chang, CCY Chang, D Cheng	66:613-38
Sterols and Isoprenoids: Signaling Molecules Derived from the Cholesterol Biosynthetic Pathway	PA Edwards, J Ericsson	68:157-85

Metabolic Regulation

Regulation of Phosphoenolpyruvate Carboxykinase (GTP) Gene Expression	RW Hanson, L Reshef	66:581-611
Inorganic Polyphosphate: A Molecule of Many Functions	A Kornberg, N Rao, D Ault-Riché	68:89-125

Natural Products, Antibiotics, and Toxins

Consensus Peptides Targeted to Specific Nicotinic Acetylcholine Receptor Subtypes	JM McIntosh, AD Santos, BM Olivera	68:59-88
---	--	----------

Drug Discovery and Combinatorial Chemistry

Tolerance and Specificity of Polyketide Synthases	C Khosla, RS Gokhale, JR Jacobsen, DE Cane	68:219-53
---	--	-----------

